Letterhead

ODP 8-1156b
17 July 1973

STATINTL

MEMORANDUM FOR: Commanding Officer, Naval Intelligence Support Center (NISC-OSS)

FROM : [redacted] Executive Officer
Office of Data Processing, CIA

SUBJECT : Intelligence Information Processing Symposium - Prospective Attendees Thereto

REFERENCE : Your Memo dtd 26 June 78
My memo dtd 13 July 78, same subject

Please add the CIA employees listed below to the list of prospective attendees at the subject symposium. Their applications arrived late. I hope this doesn't cause you a problem. All have Top Secret security clearances, which will be certified in a separate action by our Office of Security. They have received preregistration forms, but will probably be late in mailing them in.

STATINTL

[redacted]

STATINTL

[redacted]

Distribution:
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ONI review(s) completed.

O/D/ODP, [redacted] ee/7-17-78

STATINTL

ODP 8-1156a
13 July 1978

MEMORANDUM FOR: Commanding Officer, Naval Intelligence Support Center (NISC-OSS)

FROM : [redacted] Executive Officer
Office of Data Processing, CIA

SUBJECT : Intelligence Information Processing Symposium - Prospective Attendees Thereto

REFERENCE : Your memo dated 26 June 1978

The following is a list of prospective attendees from CIA at subject symposium. All have Top Secret security clearances, which will be certified in a separate action by our Office of Security. They have also received preregistration forms with instructions to mail them to NISC by 18 July 1978.

STATINTL [redacted]

ILLEGIB [redacted]

I can be reached on [redacted] if any further information is needed. STAT

[redacted] STATINTL

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ODP #8-1156

DEPARTMENT OF THE NAVY
NAVAL INTELLIGENCE SUPPORT CENTER
4301 Suitland Road
Washington, DC. 20390

IN REPLY REFER TO

26 JUN 1978

STATINTL

From: Symposium Co-chairman, CDR Hugh W. Johnson
To: Central Intelligence Agency, Office of Data Processing
[redacted]

Subj: Additional details regarding Symposium

Encl: (1) Letter from Commander, Naval Intelligence Command
(2) Preliminary Program for Symposium; Intelligence Production: Demanding More From The Computer

1. Thank you for having taken the time to allow me to review with you the upcoming Symposium referred to in the invitation letter from Admiral Shapiro, enclosure (1).

2. As you well know, some uses of computers... analysts, writers, editors, researchers and librarians... are prone to overlook the many opportunities to increase the scope and quantity of intelligence production inherent in modern day computer technology. It is primarily for these types of users that the Symposium is being conducted; all speakers have been asked to skew their presentations to the analyst, writer, editor audience.

3. Within the next week, we will be sending you a number of pocket-size pamphlets outlining details of the Symposium. These pamphets are for distribution to those you feel could profit from attending all or part of the Symposium. Inside the pamphlet will be a card to be filled out by the individual planning to attend the seminar plus a pre-addressed envelope in which to send the card. With these cards, we will be able to get an accurate count of people planning to attend as well as the specific concurrent sessions the individual plans to attend.

4. Please note that the reply cards referred to in (3) above are in addition to the list of attendees and their clearances requested in Admiral Shapiro's letter. We would appreciate your sending that list of attendees to the Naval Intelligence Support Center (NISC-0SS) by 17 July 1978 vice 30 June. Classification of one session on the afternoon of 25 July is CONFIDENTIAL; classification for all of the afternoon sessions on 27 July is SECRET.

5. Meanwhile, if you or any of your associates have any questions about the Symposium, please feel free to telephone CDR Robert L. Morrison, USNR, Symposium Co-Chairman for the program, (914) 463-2614; or CDR Hugh W. Johnson III, USNR, Symposium Co-Chairman for administration, (215) 672-2300.

6. We look forward to meeting with you and other professionals at the Symposium on 25-27 July 1978.

for D Pauling
Hugh W. Johnson III
CDR, USNR

Copy to:

CDR R.L. Morrison
NISCACINT 0102
Naval Reserve Center
Poughkeepsie, NY

Mr. E.F. Russell
NISC-0001B

Ser 00T/34

From: Commander, Naval Intelligence Command
To: Distribution List

Subj: Intelligence Information Processing Symposium

Encl: (1) Intelligence Production ADP Symposium At a Glance

1. It is the stated policy of our national leadership that the Intelligence Community obtain maximum benefit from information gathered and perform at maximum effectiveness and efficiency. To continue and expand upon past improvements, it is necessary to take full advantage of technological advances in all phases of intelligence collection, processing, and dissemination.

2. Toward this end, the Naval Intelligence Command is sponsoring a symposium to be held at the National Defense University, Washington, D.C., 25-27 July 1978 devoted to the application of modern information processing technology to the production of scientific and technical intelligence, the processing of operational intelligence, and the management of the Intelligence Data Base. Program details are transmitted as enclosure (1).

3. The symposium is being conducted primarily for the Naval Intelligence Command and its subordinate commands including the Navy Field Operational Intelligence Office, the Naval Ocean Surveillance Information Center, the Naval Intelligence Processing Systems Support Activity and the Naval Intelligence Support Center. In addition, an invitation is extended and attendance by representatives of your Command would be most welcome. A SECRET clearance will be required for attendance at the symposium.

4. At present, there appears to be no limitation as to the number of attendees from your Command. For planning purposes, however, please submit your prospective list of attendees by 30 June 1978 to the Commanding Officer, Naval Intelligence Support Center (NISC-0SS), 4301 Suitland Road, Washington, D.C. 20390. Security clearances should be passed to the Commanding Officer, Naval Intelligence Support Center (NISC-161).

S. SHAPIRO

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ORIG BY: MR. E.F.RUSSELL/NISC-0001B/763-1107/8 JUN 1978
TYPED BY: KATHY BLASO/NISC-0001/763-2171/8 JUN 1978

INTELLIGENCE PRODUCTION:
DEMANDING MORE FROM THE COMPUTER

A three day Symposium for Computer professionals and intelligence analysts who use computer systems to produce and disseminate intelligence for the Naval Intelligence Command.

25 — 27 JULY 1978

National Defense University
Fort Lesley J. McNair
Washington, D.C.

INTELLIGENCE PRODUCTION: DEMANDING MORE FROM THE COMPUTER

BACKGROUND

Since the advent of World War II, the most significant tool to be developed for the use of the intelligence analyst is the computer. The computer has an almost infinite capacity to store and process data to assist U.S. military forces in maintaining a high state of awareness of the capabilities, vulnerabilities and intent of potential adversaries.

The computer, however, is not a static tool; new improvements, new hardware and new capabilities are constantly being developed and perfected. Because of these dynamic developments, it is incumbent upon all professional personnel within the Naval Intelligence Command not only to keep abreast of the significant changes but to continue to explore the inherent capabilities of existing computer systems.

OBJECTIVES

Recognizing these needs, the Naval Intelligence Command is conducting a three day symposium DP/80S (Data Processing-1980's) entitled Intelligence Production: Demanding More from the Computer.

This Symposium is designed to assist professional intelligence personnel within the Command in the fulfillment of their present and future responsibilities by . . .

1. exploring computer capabilities within the Command to assure optimum utilization of existing capabilities;
2. introducing new computer capabilities to be installed within the Command; and
3. discussing peripheral subjects that impinge on the operations and productivity of existing and proposed capabilities.

PRIME GOAL

Continued production and dissemination of a high level of quality Naval intelligence in the months and years ahead.

A Professional Development Symposium:

INTELLIGENCE PRODUCTION -- DEMANDING MORE FROM THE COMPUTER

Tuesday, 25 July 1978

0800-0900 Registration and Administrative Matters

0900-0945 Opening Session

0900 Administrative Remarks by Symposium Co-Chairman
Cdr. Hugh W. Johnson III, USNR, Executive Officer,
Naval Reserve Unit NISCACINT 0102

0905 Welcome by Convening Authority
RAdm. Sumner Shapiro, USN,
Commander, Naval Intelligence Command

0915 Greetings from Host Installation
LTG Robert G. Gard, Jr., USA, President,
National Defense University

0920 Symposium Objectives: ADP Standpoint
Capt. Fred A. Hull, USN, Commanding Officer,
Naval Intelligence Processing System Support Activ

0930 Symposium Objectives: User Standpoint
Capt. Jean P. Sheets, USN, Commanding Officer,
Naval Intelligence Support Center

0940 Agenda Discussion by Symposium Co-Chairman
Cdr. Robert L. Morrison, USNR, Operations Officer,
Naval Reserve Unit NISCACINT 0102

0945-1030 Keynote Speaker: The Future of Computer Technology for the Military
Dr. Paul Oliver, Director,
Federal COBOL Compiler Testing Service,
Department of the Navy (ADPESO), and
Professor of Computer Science, American University

1030-1045 Break

INTELLIGENCE PRODUCTION SYMPOSIUM

Tuesday, 25 July 1978, Continued

1045-1115 Current Applications of Data Processing Within the Naval Intelligence Command
Mr. Richard E. Ray, Deputy Head,
Project Development Department,
Naval Intelligence Processing System Support Activ

1115-1145 Current S & T ADP Applications Within the Naval Intelligence Support Center
Mr. James P. Farrell, Head, Hardware Requirements,
Design & Development Unit, Office of Systems Suppo
Naval Intelligence Support Center

1145-1245 Lunch

1245-1300 The Freedom of Information and Privacy Acts
Mr. Anthony V. Krochalis, Special Assistant for Plans
Policy and Organization, Naval Intelligence Comman

1300-1330 ADP System Development and Procurement in the Navy
Lcdr. Steven R. Turner, USN, Intelligence Systems Ana
Naval Data Automation Command (NAVDAC)

1330-1400 Department of Defense ADP Security Policies
Mr. Milton A. Martenson, Chief, Information Systems
Security Office, Defense Intelligence Agency

1400-1430 Application of Computer-based Decision Support Systems to the Management Process
Dr. John D. C. Little, Group Head and
Professor of Operations Research and Management,
Sloan School of Management,
Massachusetts Institute of Technology

1430-1445 Break

1445-1600 Concurrent Sessions (A) (see pages 6 thru 12)

1700-1800 Reception (no-host)

INTELLIGENCE PRODUCTION SYMPOSIUM

Wednesday, 26 July 1978

0800-0915	Data Base Management Systems Cdr. Alan J. Lidstone, USNR, Project Officer, Naval Reserve Unit NISCACINT 0102
0915-1015	Future Trends in Data Processing Dr. Louis Robinson, Director of Scientific Computing IBM Corporation
1015-1030	Break
1030-1145	Concurrent Sessions (B) (see pages 6 THRU 12)
1145-1245	Lunch
1245-1400	Concurrent Sessions (C) (see pages 6 THRU 12)
1400-1430	S & T Intelligence versus Operational Intelligence Dr. Robert J. Hermann, Assistant Secretary of Defens for Communications, Command, Control and Intellig
1430-1445	Break
1445-1600	New Directions in Data Base Management Systems Dr. P. Bruce Berra, Professor of Industrial Engineeri and Operations Research, Syracuse University
1800-2000	Dinner for Symposium Sponsor, Staff, and Guests

INTELLIGENCE PRODUCTION SYMPOSIUM

Thursday, 27 July 1978

0800-0930 Distributed Data Processing

Session Chairman: Lcdr. Michael G. Colston, USNR,
Project Officer, Naval Reserve Unit NISCACINT 0102

"Distributed Processing in Naval Systems"
Dr. Ted F. Hueter, Vice President, Corporate Technology
Honeywell Marine Systems Division, Honeywell Corporatic
and
Mr. Dale C. Gunderson, Manager of Information Sciences,
Aerospace and Defense Group, Honeywell Corporation

"Application of Distributed Processing to the Production of Digital Terrain Data"
Mr. Dennis E. Moellman, Physical Scientist,
Directorate of Systems and Techniques, Aerospace Center
Defense Mapping Agency

"Distributed Processing for Signal Processing Using the Building Block Signal Processor"
Mr. Frank P. Hiner III, Senior Scientist,
Litton, Data Systems Division

0930-1015 Featured Speaker
VAdm. Bobby R. Inman, USN, Director,
National Security Agency

1015-1030 Break

1030-1145 Concurrent Sessions (D) (see pages 6 thru 12.)

1145-1245 Lunch

INTELLIGENCE PRODUCTION SYMPOSIUM

STATINTL

Thursday, 27 July 1978, Continued

1245-1330 Community On-Line INtelligence System (COINS) -- A Computer Network to Support Intelligence Analysts
[redacted] COINS Project Manager,
National Security Agency

1330-1415 The Naval Intelligence Command Integrated Automated Intelligence Processing System: Concept and Implementation
Cdr. Richard J. Schlaff, USN, Head,
Project Development Department,
Naval Intelligence Processing System Support Activity

1415-1430 Break

1430-1500 The NASF (NIC Analyst Support Facility) Subsystem of IAIPS
Cdr. Jane F. Renninger, USN, NASF Development Project Manager, Naval Ocean Systems Center

1500-1515 The Technical Improvement Plan (TIP)
Mr. Alfred Weinrauch, Office of Systems Support,
Naval Intelligence Support Center

1515-1545 Professional Development within the Intelligence Command
Lcdr. Stanley C. Morse, USNR, Intelligence Officer,
Naval Reserve Unit NISCACINT 0102

1545-1600 Concluding Remarks
Capt. Jean P. Sheets, USN, Commanding Officer,
Naval Intelligence Support Center
Capt. Fred A. Hull, USN, Commanding Officer,
Naval Intelligence Processing System Support Activity
Capt. William W. Lang, USNR, Commanding Officer,
Naval Reserve Unit NISCACINT 0102, Poughkeepsie, NY

INTELLIGENCE PRODUCTION SYMPOSIUM

Potential Concurrent Sessions

(Responses to the interest questionnaire included with the Symposium Announcement will be used to determine which of the following sessions will be offered. Each attendee will have the opportunity to attend four of these sessions.)

ACHIEVING A COMMUNICATIONS BREVITY GOAL

One of the key objectives of any intelligence unit is brevity. A worthwhile goal might be a 15% reduction in time to encrypt and transmit intelligence, and a 10% reduction in the number of printed words. Can it be achieved? If so, how?

ADVANCES IN COMPUTER TECHNOLOGY FOR SIGNAL PROCESSING

Improvements in computer circuitry and logic density have resulted in new technology becoming available for signal processing that is faster and less expensive than ever before. Applications of the new technology include digital filters and A/D and D/A converters with improved performance, reliability, and flexibility.

This session will survey the state of the art of technology, including both hardware and software, and is intended for intelligence analysts.

INTELLIGENCE PRODUCTION SYMPOSIUM

AN UPDATE ON COMPUTER TERMINAL CAPABILITIES or: THE AUTOMATED OFFICE

Advances in both technology and computer communication facilities and procedures have greatly increased the utility and versatility of a computer system from the point of view of a computer user at a terminal. This discussion will highlight some of the capabilities now available to that user, from full screen text editing to graphic design to electronic mail.

The session should interest all computer users including data processing professionals.

CONCEPTS AND FACILITIES OF ARPANET

The Advanced Research Projects Agency Computer Network (ARPANET) is a nationwide network linking computers at universities, government installations, and private contractors. This talk discusses some of the major concepts of ARPANET such as distributed processing, packet switching, and store-and-forward message routing. Also discussed are some of the capabilities and facilities available to the users of the network: resource sharing, remote terminal access, remote job entry, program libraries, and mailboxes. Analysts and other computer users should be interested in this presentation.

DATA SECURITY: ACHIEVABLE WITH COMPUTER SYSTEMS?

Data processing systems utilized in handling classified information must be provided with special facilities and procedures to safeguard that data. Encryption techniques, transmission protocols, user authorization checks, and passwords are among the procedures currently employed. This discussion will highlight these facilities and their limitations and offer an insight to future developments in computer security.

The session is intended for analysts and technical writers who create and access classified data bases, rather than data processing professionals who implement and manage the security facilities.

INTELLIGENCE PRODUCTION SYMPOSIUM

ESTIMATING AND CONTROLLING COMPUTER USAGE BUDGETS

Planning for adequate computer facilities available to each user requires having a realistic estimate of the users' needs for computer resources. Timely decisions must be made concerning how many terminals get assigned to each organization and how much computer time and memory space should be allocated to each user. One effective instrument for monitoring and controlling usage of computer resources is the budget.

An overview of basic methods for managing the budgeting process is presented. Managers and data processing planners should be interested in this subject.

INSIDE DATA BASE MANAGEMENT TECHNOLOGY

The search for convenient and efficient ways to use computers to store, process, and retrieve data has led to the development of computer software to facilitate these capabilities. A small class of this software qualifies as "data base management systems." This presentation will clarify--

- qualification for a data base management systems (DBMS)
- types of DBMS available today
- advantages and problems of using a DBMS
- features commonly available in current DBMS
- considerations in developing applications that share a common data base

Analysts, technical writers, and managers who work with information that can be stored on a computer will benefit from this discussion.

INTELLIGENCE PRODUCTION SYMPOSIUM

INSTALLING AND USING A DATA BASE MANAGEMENT SYSTEM

Exploiting computer-analyzed intelligence data as a sharable resource, serving multiple user groups, will increasingly depend on proper use of a sophisticated data base management system (DBMS). In this context, general DBMS features will be introduced. The roles of data dictionaries, data base administrators, data management languages, and report generators will also be discussed.

To focus the topic, a specific DBMS will be featured: the Integrated Database Management System (IDMS) marketed by Cullinane Corporation, which is already installed at NIPSSA and under which several projects are being implemented.

This session should interest intelligence analysts and their management as well as computer professionals.

INTERACTIVE DATA BASE QUERY

A variety of flexible tools are provided to the users of a modern interactive query system supplied with the appropriate computer programs. Users can build private files, can share the use of others' files, can transmit information to other users, and can conduct searches of data bases for information, among other capabilities.

An interactive system now under development in another intelligence agency will provide those and other facilities to users at computer terminals. That system will serve as the basis for discussing both the functional capabilities and the considerations for developing a comprehensive interactive query system. The session should interest both data processing professionals and those in scientific and technical billets who could utilize the facilities of such a system.

INTELLIGENCE PRODUCTION SYMPOSIUM

MODERN PROGRAMMING DESIGN TECHNIQUES

A synopsis of the state of the art techniques in computer programming will be presented. Some of the topics are:

- structured design
- star diagrams
- walk-throughs
- structured programming
- chief programmer teams
- egoless programming
- high level languages
- documentation

Practical experiences in the use of the techniques will be used to illustrate the discussion, which is intended for both professional and occasional programmers and their management.

PLANNING FOR NEW USES OF THE COMPUTER

A presentation and discussion on how to plan, design, and implement new applications for the computer, using a structured and disciplined approach. Phases and events in the development process will be discussed, with emphasis on planning and management considerations in producing effective user- oriented systems. The intended audience is managers and data processing planners.

INTELLIGENCE PRODUCTION SYMPOSIUM

PROJECT MANAGEMENT IN AN S & T ENVIRONMENT

Components of effective project management including planning, scheduling, and control techniques are surveyed. Planning topics to be covered include organizational alternatives, project teams, and personnel policies. Scheduling and control techniques are discussed in terms of an overall phase plan for system development and implementation. The phase plan extends from the original idea through planning, specification, design, implementation, test, acceptance, and follow-up. It is a guideline that coordinates the necessary management control functions with the development activities throughout the entire phase plan process.

This session is designed to encourage thinking on a system-wide basis among management and professional personnel. Practical suggestions are provided on how to organize from beginning to end to achieve the IAIPS plan objectives.

SIZING AND COMPARING CENTRAL HOST COMPUTING SYSTEMS

The relative merits of available central host computing systems can be determined only when a profile of the projected total user requirements is known. Because of hardware and software design differences, computer systems vary in their ability to process different categories of work. Being able to assess the capabilities (such as the performance) of various host computers in terms of a workload requires understanding the total requirements on the system as well as the specific requirements for each category of processing, such as batch, remote job entry, time-sharing, data base, sensor based, message switching, or real-time applications. Conflicting application requirements may preclude an optimal computer configuration; tradeoffs may be necessary.

In this session the tools and methods available for users with known application requirements to evaluate host computer systems comparatively, and to select equipment that best satisfies those requirements, will be discussed. The session should interest both computer users and data processing planners.

INTELLIGENCE PRODUCTION SYMPOSIUM

SOLVING MANAGEMENT PROBLEMS BY COMPUTER

This discussion will review several management science techniques that are useful in solving problems in managing complex activities, events, and organizations. Emphasis is placed upon separating content from form in such problems. The intended audience is managers, planners, and technical personnel with supervisory responsibilities.

STANDALONE VERSUS SHARED RESOURCES

Needs of computer users for data processing resources vary depending on a number of technical factors in addition to the organizational structure and chain-of-command relationships. Such factors include the amount of data to be processed, the frequency of adding or modifying data, the turnaround time permissible in which to process the data, security and integrity considerations, and the size, speed, and configuration of the computing systems available to the user.

The relative importance of these factors indicates whether it is technically sounder for computer resources to be dedicated to one group of users or to be shared among several groups.

This session should assist users of data processing systems in specifying their requirements for computer resources, and those who will plan the acquisition and management of those resources.

GENERAL INFORMATION

PRE-REGISTRATION—Each person invited to participate in symposium, DP/80S, is requested to complete the return reply card enclosed in this announcement brochure prior to 6 July 1978. Each person is requested to complete the questions asked on the reverse side of the return reply card.

REGISTRATION—Registration for the symposium will take place at 0800 on Tuesday, 25 July 1978 at the Industrial College of the Armed Forces, National Defense University, Fort Lesley J. McNair, 4th and P Streets, SW, Washington, D.C. At that time, participants will be issued identification badges and program materials. There is no registration fee for this symposium.

UNIFORM—Civilian dress for registrants for all three days. For military speakers and members of the Naval Reserve, the uniform is tropical white long.

TRANSPORTATION—Private automobile and taxi from nearby hotels are the best modes of transportation. There is ample parking close in the Industrial College.

CLEARANCE—A Confidential clearance is required for the afternoon session on July 25, Secret for the afternoon sessions on July 27.

MESSAGE CENTER—A message center will be maintained at the registration desk. Registrants are requested to check for messages as there will be no page system. Message Center phone number is (202) 693-1276.

INQUIRIES—Prior to 21 July, inquiries should be addressed to Mr. Edgar Russell, NISC-0003, phone (202) 763-1107. On 24 July and during the symposium, inquiries should be addressed to LCDR William Rutigliano, phone (202) 693-1276.